SAFETY DATA SHEET

1. Identification
   Product identifier       HyVolt II NG
   Other means of identification   None.
   Recommended use          Transformer Oil
   Recommended restrictions None known.

Manufacturer/Importer/Supplier/Distributor information
Company:                 Ergon, Inc.
Address:                 P.O. Box 1639
                          Jackson, MS 39215
E-mail:                  sds@ergon.com

Emergency Contacts
Customer Service:        1-800-222-7122
Chemtrec:                1-800-424-9300 After Business Hours (North America Only)
                          1-703-527-3887 After Business Hours (International)

2. Hazard(s) identification
   Physical hazards        Not classified.
   Health hazards          Aspiration hazard
                           Category 1
   Environmental hazards   Not classified.
   OSHA defined hazards    Not classified.
   Hazard(s) not otherwise classified (HNOC) None known.
   Supplemental information None.

3. Composition/information on ingredients
   Mixtures
<table>
<thead>
<tr>
<th>Chemical name</th>
<th>Common name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC</td>
<td></td>
<td>64742-53-6</td>
<td>25 - 99</td>
</tr>
<tr>
<td>LUBRICATING OILS (PETROLEUM), C15-30, HYDROTREATED NEUTRAL OIL-BASED</td>
<td></td>
<td>72623-86-0</td>
<td>0 - 50</td>
</tr>
</tbody>
</table>

Material name: HyVolt II NG
Version #: 03   Revision date: 04-23-2019   Issue date: 05-06-2014
### Chemical name and synonyms

<table>
<thead>
<tr>
<th>Chemical name and synonyms</th>
<th>CAS number</th>
<th>%</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC</td>
<td>64742-55-8</td>
<td>0 - 35</td>
</tr>
<tr>
<td>DISTILLATES (PETROLEUM), SOLVENT-DEWAXED LIGHT PARAFFINIC</td>
<td>64742-56-9</td>
<td>0 - 10</td>
</tr>
<tr>
<td>SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM.</td>
<td>64742-94-5</td>
<td>0 - 5</td>
</tr>
<tr>
<td>2,6-DI-TERT-BUTYL-P-CRESOL [BUTYLATED HYDROXYTOLUENE (BHT)]</td>
<td>128-37-0</td>
<td>&lt; 0.3</td>
</tr>
</tbody>
</table>

### 4. First-aid measures

#### Inhalation
Move to fresh air. Oxygen or artificial respiration if needed. IF exposed or concerned: Get medical advice/attention.

#### Skin contact
Wash contact areas with soap and water. Remove contaminated clothing. Launder contaminated clothing before reuse. If skin irritation or an allergic skin reaction develops, get medical attention.

#### Eye contact
Flush thoroughly with water. If irritation occurs, get medical assistance.

#### Ingestion
Do NOT induce vomiting. If vomiting occurs naturally, have victim lean forward to reduce risk of aspiration. Call a poison control center immediately.

#### Most important symptoms/effects, acute and delayed
Defatting of the skin.

#### Indication of immediate medical attention and special treatment needed
Treat symptomatically.

#### General information
Contact physician if discomfort continues.

### 5. Fire-fighting measures

#### Suitable extinguishing media
Halon. Dry chemicals. Foam. Carbon dioxide (CO2). Water spray or fog. Do not use water jet as an extinguisher, as this will spread the fire.

#### Unsuitable extinguishing media
Do not use a solid water stream as it may scatter and spread fire.

#### Specific hazards arising from the chemical
No unusual fire or explosion hazards noted.

#### Special protective equipment and precautions for firefighters
Wear full protective clothing, including helmet, self-contained positive pressure or pressure demand breathing apparatus, protective clothing and face mask.

#### Fire fighting equipment/instructions
Cool containers exposed to flames with water until well after the fire is out. Firefighters must use standard protective equipment including flame retardant coat, helmet with face shield, gloves, rubber boots, and in enclosed spaces, SCBA. Use pressurized air mask if product is involved in a fire.

#### General fire hazards
No unusual fire or explosion hazards noted. Flammability Class: Combustible IIIB

### 6. Accidental release measures

#### Personal precautions, protective equipment and emergency procedures
Keep unnecessary personnel away. Local authorities should be advised if significant spillages cannot be contained. Wear appropriate protective equipment and clothing during clean-up. Do not touch damaged containers or spilled material unless wearing appropriate protective clothing. Ensure adequate ventilation.

#### Methods and materials for containment and cleaning up
Large Spills: ELIMINATE all ignition sources (no smoking, flares, sparks or flames in immediate area). Stop the flow of material, if this is without risk. Dike the spilled material, where this is possible. Cover with plastic sheet to prevent spreading. Absorb in vermiculite, dry sand or earth or absorbent material then place into containers. Following product recovery, flush area with water.

Small Spills: Wipe up with absorbent material (e.g. cloth, fleece). Clean surface thoroughly to remove residual contamination.

Never return spills in original containers for re-use. For waste disposal, see section 13 of the SDS.
Prevent further leakage or spillage if safe to do so. Prevent entry into waterways, sewer, basements or confined areas. Avoid discharge to the aquatic environment. Contact local authorities in case of spillage to drain/aquatic environment. Avoid discharge into drains, water courses or onto the ground. If this material is spilled into navigable waters and creates a visible sheen, it is reportable to the National Response Center.

7. Handling and storage

Precautions for safe handling DO NOT handle, store or open near an open flame, sources of heat or sources of ignition. Protect material from direct sunlight. Do not breathe dust/fume/gas/mist/vapors/spray. Wash hands after handling and before eating. Do not get this material in contact with eyes. Avoid contact with skin. Avoid prolonged exposure. All handling to take place in well-ventilated area. Shower after work. Remove and wash contaminated clothing promptly.

Conditions for safe storage, including any incompatibilities Store locked up. Keep away from heat, sparks and open flame. Store in a well-ventilated place. Use care in handling/storage.

8. Exposure controls/personal protection

Occupational exposure limits

<table>
<thead>
<tr>
<th>US. OSHA Table Z-1 Limits for Air Contaminants (29 CFR 1910.1000) Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC (CAS 64742-53-6)</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>Mist.</td>
</tr>
<tr>
<td>DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC (CAS 64742-55-8)</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>Mist.</td>
</tr>
<tr>
<td>DISTILLATES (PETROLEUM), SOLVENT-DEWAXED LIGHT PARAFFINIC (CAS 64742-56-9)</td>
<td>PEL</td>
<td>5 mg/m3</td>
<td>Mist.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. ACGIH Threshold Limit Values Components</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>2,6-DI-TERT-BUTYL-P-CRESOL [BUTYLATED HYDROXYTOLUENE (BHT)] (CAS 128-37-0)</td>
<td>TWA</td>
<td>2 mg/m3</td>
<td>Inhalable fraction and vapor.</td>
</tr>
<tr>
<td>DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC (CAS 64742-55-8)</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td>LUBRICATING OILS (PETROLEUM), C15-30, HYDROTREATED NEUTRAL OIL-BASED (CAS 72623-86-0)</td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>Inhalable fraction.</td>
</tr>
<tr>
<td>SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. (CAS 64742-94-5)</td>
<td>TWA</td>
<td>200 mg/m3</td>
<td>Non-aerosol.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>US. NIOSH: Pocket Guide to Chemical Hazards Material</th>
<th>Type</th>
<th>Value</th>
<th>Form</th>
</tr>
</thead>
<tbody>
<tr>
<td>HyVolt II NG</td>
<td>STEL</td>
<td>10 mg/m3</td>
<td>Mist.</td>
</tr>
<tr>
<td></td>
<td>TWA</td>
<td>5 mg/m3</td>
<td>Mist.</td>
</tr>
</tbody>
</table>
### US. NIOSH: Pocket Guide to Chemical Hazards

#### Components

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<td>2,6-DI-TERT-BUTYL-P-CRES OL [BUTYLATED HYDROXYTOLUENE (BHT)] (CAS 128-37-0)</td>
<td>TWA</td>
<td>10 mg/m³</td>
<td></td>
</tr>
<tr>
<td>DISTILLATES (PETROLEUM), HYDROTREATED LIGHT NAPHTHENIC (CAS 64742-53-6)</td>
<td>Ceiling</td>
<td>1800 mg/m³</td>
<td></td>
</tr>
<tr>
<td>DISTILLATES (PETROLEUM), HYDROTREATED LIGHT PARAFFINIC (CAS 64742-55-8)</td>
<td>STEL</td>
<td>10 mg/m³</td>
<td>Mist.</td>
</tr>
<tr>
<td>DISTILLATES (PETROLEUM), SOLVENT-DEWAXED LIGHT PARAFFINIC (CAS 64742-56-9)</td>
<td>TWA</td>
<td>5 mg/m³</td>
<td>Mist.</td>
</tr>
<tr>
<td>SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. (CAS 64742-94-5)</td>
<td>TWA</td>
<td>100 mg/m³</td>
<td></td>
</tr>
</tbody>
</table>

#### Biological limit values

No biological exposure limits noted for the ingredient(s).

#### Exposure guidelines

**US ACGIH Threshold Limit Values: Skin designation**

**SOLVENT NAPHTHA (PETROLEUM), HEAVY AROM. (CAS 64742-94-5)**

Can be absorbed through the skin.

**Appropriate engineering controls**

Adequate ventilation should be provided whenever the material is heated or mists are generated. Provide adequate ventilation, including appropriate local extraction, to ensure that the defined occupational exposure limit is not exceeded.

**Individual protection measures, such as personal protective equipment**

**Eye/face protection**

Goggles/face shield are recommended.

**Hand protection**

Chemical resistant gloves are recommended. If contact with forearms is likely wear gauntlet style gloves.

**Other**

Chemical/oil resistant clothing is recommended. Launder contaminated clothing before reuse.

**Respiratory protection**

Under normal conditions, respirator is not normally required. When workers are facing concentrations above the exposure limit they must use appropriate certified respirators.

**Thermal hazards**

Not available.

**General hygiene considerations**

Always observe good personal hygiene measures, such as washing after handling the material and before eating, drinking, and/or smoking. Routinely wash work clothing to remove contaminants. Discard contaminated footwear that cannot be cleaned.

### 9. Physical and chemical properties

**Appearance**

Clear & bright

**Physical state**

Liquid.

**Form**

Liquid.

**Color**

Water White to Pale

**Odor**

Mild Petroleum Odor

**Odor threshold**

Not available.

**pH**

Not applicable
Melting point/freezing point  < -40 °F (< -40 °C) ASTM D 5950
Initial boiling point and boiling range  > 460 °F (> 237.78 °C) ASTM D 2887/ ISO 3294
Flash point  >= 293.0 °F (>= 145.0 °C) Cleveland Open Cup ASTM D 92/ ISO 2592
Evaporation rate  Not available.
Flammability (solid, gas)  Not available.
Upper/lower flammability or explosive limits
  Flammability limit - lower (%)  Not available.
  Flammability limit - upper (%)  Not available.
  Explosive limit - lower (%)  Not available.
  Explosive limit - upper (%)  Not available.
Vapor pressure  Not available.
Vapor density  Not available.
Relative density  0.89 (59 °F (15 °C) ASTM D 4052/ ISO 12185)
Solubility(ies)
  Solubility (water)  Insoluble
Partition coefficient (n-octanol/water)  Not established.
Auto-ignition temperature  > 599 °F (> 315 °C) ASTM E 659
Decomposition temperature  Not available.
Viscosity  9.3 cSt (104 °F (40 °C) ASTM D 341)

10. Stability and reactivity
Reactivity  The product is stable and non-reactive under normal conditions of use, storage and transport.
Chemical stability  Stable.
Possibility of hazardous reactions  Hazardous polymerization does not occur.
Conditions to avoid  Heat, flames and sparks. Avoid temperatures exceeding the flash point.
Incompatible materials  Strong oxidizing agents.
Hazardous decomposition products  Upon decomposition, this product emits carbon monoxide, carbon dioxide and/or low molecular weight hydrocarbons.

11. Toxicological information
Information on likely routes of exposure
  Inhalation  May be fatal if swallowed and enters airways.
  Skin contact  Frequent or prolonged contact may defat and dry the skin, leading to discomfort and dermatitis.
  Eye contact  May be irritating to eyes.
  Ingestion  May cause gastrointestinal discomfort if swallowed. Do not induce vomiting. Vomiting may increase risk of product aspiration. May be fatal if swallowed and enters airways.
Symptoms related to the physical, chemical and toxicological characteristics  Defatting of the skin. Coughing. Shortness of breath. Discomfort in the chest.
Information on toxicological effects
Acute toxicity  Not applicable.
Skin corrosion/irritation  May cause defatting of the skin, but is neither an irritant nor a sensitizer.
Serious eye damage/eye irritation  Not classified. May cause minor irritation on eye contact.
Respiratory or skin sensitization
  Respiratory sensitization  Not classified.
  Skin sensitization  Not classified. May cause defatting of the skin, but is neither an irritant nor a sensitizer.
Germ cell mutagenicity
No data available to indicate product or any components present at greater than 0.1% are mutagenic or genotoxic.

Carcinogenicity
This product is not considered to be a carcinogen by IARC, ACGIH, NTP, or OSHA. Nota L - Meets EU requirement of less than 3% (w/w) DMSO extract for total polycyclic aromatic compound (PAC) using IP 346. Not classified.

IARC Monographs. Overall Evaluation of Carcinogenicity
Not listed.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)
Not regulated.

US. National Toxicology Program (NTP) Report on Carcinogens
Not listed.

Reproductive toxicity
Contains no ingredient listed as toxic to reproduction

Specific target organ toxicity
- single exposure
Not classified.

Specific target organ toxicity
- repeated exposure
Not classified.

Aspiration hazard
May be fatal if swallowed and enters airways.

Chronic effects
Prolonged inhalation may be harmful. Prolonged exposure may cause chronic effects.

Further information
Risk of chemical pneumonia after aspiration.

12. Ecological information

Ecotoxicity
Not expected to be harmful to aquatic organisms.

<table>
<thead>
<tr>
<th>Product</th>
<th>Species</th>
<th>Test Results</th>
</tr>
</thead>
<tbody>
<tr>
<td>HyVolt II NG</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Aquatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50</td>
<td>Daphnia 800 mg/l, 48 hours estimated</td>
</tr>
</tbody>
</table>

Components

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<tr>
<td>Aquatic</td>
<td></td>
</tr>
<tr>
<td>Crustacea</td>
<td>EC50 1.44 mg/l, 48 hours</td>
</tr>
</tbody>
</table>

Not inherently biodegradable.

Bioaccumulative potential
Bioaccumulation is unlikely to be significant because of the low water solubility of this product.

Mobility in soil
Not available.

Other adverse effects
No other adverse environmental effects (e.g. ozone depletion, photochemical ozone creation potential, endocrine disruption, global warming potential) are expected from this component.

13. Disposal considerations

Disposal instructions
When this product as supplied is to be discarded as waste, it does not meet the definition of a RCRA waste under 40 CFR 261. Disposal recommendations are based on material as supplied. Disposal must be in accordance with current applicable laws and regulations, and material characteristics at time of disposal.

Hazardous waste code
Not applicable.

Waste from residues / unused products
Dispose of in accordance with local regulations. Avoid discharge into water courses or onto the ground.

Contaminated packaging
Empty containers should be taken to an approved waste handling site for recycling or disposal. Since emptied containers may retain product residue, follow label warnings even after container is emptied. Offer rinsed packaging material to local recycling facilities.

14. Transport information

DOT
Not regulated as dangerous goods.

IATA
Not regulated as dangerous goods.
IMDG
Not regulated as dangerous goods.

Transport in bulk according to Not available.
Annex II of MARPOL 73/78 and the IBC Code

General information Not regulated as dangerous goods.

15. Regulatory information

US federal regulations

This product is a "Hazardous Chemical" as defined by the OSHA Hazard Communication Standard, 29 CFR 1910.1200.

All components are on the U.S. EPA TSCA Inventory List.

CERCLA/SARA Hazardous Substances - Not applicable.

HyVolt oils are certified to be PCB-free. HyVolt oils are processed from naturally occurring raw materials with no additives or recycled oils that might introduce PCB contamination.

TSCA Section 12(b) Export Notification (40 CFR 707, Subpt. D)
Not regulated.

CERCLA Hazardous Substance List (40 CFR 302.4)
Not listed.

SARA 304 Emergency release notification
Not regulated.

OSHA Specifically Regulated Substances (29 CFR 1910.1001-1052)
Not regulated.

Superfund Amendments and Reauthorization Act of 1986 (SARA)

SARA 302 Extremely hazardous substance
Not listed.

SARA 311/312 Hazardous chemical
Yes

Classified hazard categories
Aspiration hazard

SARA 313 (TRI reporting)
Not regulated.

Other federal regulations

Clean Air Act (CAA) Section 112 Hazardous Air Pollutants (HAPs) List
Not regulated.

Clean Air Act (CAA) Section 112(r) Accidental Release Prevention (40 CFR 68.130)
Not regulated.

Safe Drinking Water Act (SDWA)
Not regulated.

US state regulations

This product does not contain a chemical known to the State of California to cause cancer, birth defects or other reproductive harm. California Safe Drinking Water and Toxic Enforcement Act of 1986 (Proposition 65): This material is not known to contain any chemicals currently listed as carcinogens or reproductive toxins.

International Inventories

<table>
<thead>
<tr>
<th>Country(s) or region</th>
<th>Inventory name</th>
<th>On inventory (yes/no)*</th>
</tr>
</thead>
<tbody>
<tr>
<td>Australia</td>
<td>Australian Inventory of Chemical Substances (AICS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Domestic Substances List (DSL)</td>
<td>Yes</td>
</tr>
<tr>
<td>Canada</td>
<td>Non-Domestic Substances List (NDSL)</td>
<td>No</td>
</tr>
<tr>
<td>China</td>
<td>Inventory of Existing Chemical Substances in China (IECSC)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European Inventory of Existing Commercial Chemical Substances (EINECS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Europe</td>
<td>European List of Notified Chemical Substances (ELINCS)</td>
<td>No</td>
</tr>
<tr>
<td>Country(s) or region</td>
<td>Inventory name</td>
<td>On inventory (yes/no)</td>
</tr>
<tr>
<td>-----------------------</td>
<td>-------------------------------------------------------------------------------</td>
<td>-----------------------</td>
</tr>
<tr>
<td>Japan</td>
<td>Inventory of Existing and New Chemical Substances (ENCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Korea</td>
<td>Existing Chemicals List (ECL)</td>
<td>Yes</td>
</tr>
<tr>
<td>New Zealand</td>
<td>New Zealand Inventory</td>
<td>Yes</td>
</tr>
<tr>
<td>Philippines</td>
<td>Philippine Inventory of Chemicals and Chemical Substances (PICCS)</td>
<td>Yes</td>
</tr>
<tr>
<td>Taiwan</td>
<td>Taiwan Chemical Substance Inventory (TCSI)</td>
<td>Yes</td>
</tr>
<tr>
<td>United States &amp; Puerto Rico</td>
<td>Toxic Substances Control Act (TSCA) Inventory</td>
<td>Yes</td>
</tr>
</tbody>
</table>

*A "Yes" indicates that all components of this product comply with the inventory requirements administered by the governing country(s)
A "No" indicates that one or more components of the product are not listed or exempt from listing on the inventory administered by the governing country(s).

16. Other information, including date of preparation or last revision

Issue date: 05-06-2014
Revision date: 04-23-2019
Version #: 03

NFPA ratings:
- Health: 2
- Flammability: 0
- Instability: 0

References:
- ACGIH
- EPA: AQUIRE database
- NLM: Hazardous Substances Data Base
- US, IARC Monographs on Occupational Exposures to Chemical Agents
- IARC Monographs, Overall Evaluation of Carcinogenicity
- National Toxicology Program (NTP) Report on Carcinogens
- ACGIH Documentation of the Threshold Limit Values and Biological Exposure Indices
- Chemical Abstracts Service Registry Handbook
- CRC: Handbook of Chemistry and Physics
- ILO Safety Cards
- International Labour Organization
- International Maritime Organization Marine Pollutants List
- NFPA Hazardous Chemical Data Sheets
- NIOSH Pocket Guide
- Registry of Toxic Effects of Chemical Substances (RTECS)
- US DOT Hazardous Materials Regulations

Disclaimer:
The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

Revision information:
- Product and Company Identification: Alternate Trade Names
- Hazard(s) identification: Response
- Composition / Information on Ingredients: Disclosure Overrides
- Physical & Chemical Properties: Multiple Properties